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NOTICE OF ALLOWANCE AND FEE(S) DUE

45160 7590 02/06/2009 WOODCOCK WASHBURN LLP CIRA CENTRE, 12TH FLOOR 2929 ARCH STREET

PHILADELPHIA, PA 19104-2891

EXAMINER

SMYTH, ANDREW P

ART UNIT PAPER NUMBER

2881

DATE MAILED: 02/06/2009

 APPLICATION NO.
 FILING DATE
 FIRST NAMED INVENTOR
 ATTORNEY DOCKET NO.
 CONFIRMATION NO.

 10/529,967
 09/15/2005
 George Janini
 NIHA-0194
 9010

TITLE OF INVENTION: CONTIGUOUS CAPILLARY ELECTROSPRAY SOURCES AND ANALYTICAL DEVICES

| APPLN. TYPE | SMALL ENTITY | ISSUE FEE DUE | PUBLICATION FEE DUE | PREV. PAID ISSUE FEE | TOTAL FEE(S) DUE | DATE DUE |
|----------------|--------------|---------------|---------------------|----------------------|------------------|------------|
| nonprovisional | NO | \$1510 | \$300 | \$0 | \$1810 | 05/06/2009 |

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 1SI. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FFE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

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| APPLICATION NO. | FILING DATE | | | FIRST NAMED INVEN | TOR | | ATTO | RNEY DOCKET NO. | CONFIRMATION NO. |
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| SMYTH, A | NDREW P | | 2881 | 250-288000 | | | | | |
| "Fee Address" indi PTO/SB/47; Rev 03-0 Number is required. 3. ASSIGNEE NAME A | ess an assignee is ident h in 37 CFR 3.II. Comp | " Indica ed. Use | ation form e of a Customer E PRINTED ON T | or agents OR, alte (2) the name of a registered attorney 2 registered patent listed, no name wi THE PATENT (print of | rnativ single y or a t attor ill be or typ the pa | e firm (having as a gent) and the name meys or agents. If opinted, e) atent. If an assignassignment. | memb es of u no nan | er a 2 p to e is 3 lentified below, the do | ocument has been filed for |
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| | s SMALL ENTITY state | ıs. See | 37 CFR I.27. | | | | | ITTY status. Sec 37 CF | |
| NOTE: The Issue Fee and interest as shown by the r | d Publication Fee (if req records of the United Sta | uired) v tes Pat | will not be accepted ent and Trademark | d from anyone other t Office. | han th | ne applicant; a regi | stered : | attorney or agent; or th | e assignee or other party in |
| Authorized Signature | | | | | | Date | | | |
| Typed or printed name | | | | | | Registration N | lo | | |
| This collection of informan application. Confident submitting the completed this form and/or suggestit Box 1450, Alexandria, V Alexandria, Virginia 223 | ation is required by 37 C tiality is governed by 35 I application form to the ons for reducing this bu irginia 22313-1450. DC 13-1450. | FR 1.3 U.S.C. USPT rden, sl D NOT | 11. The information 122 and 37 CFR O. Time will vary hould be sent to the SEND FEES OR C | on is required to obtain 1.14. This collection depending upon the Chief Information C COMPLETED FORM | n or n is esti indiv Office IS TO | etain a benefit by the imated to take 12 r idual case. Any co r, U.S. Patent and D'THIS ADDRESS | he pub minuter mmen Trader S. SEN | ic which is to file (and to complete, includin s on the amount of tir nark Office, U.S. Deps D TO: Commissioner i | by the USPTO to process) g gathering, preparing, and ne you require to complete utment of Commerce, P.O. for Patents, P.O. Box 1450, |

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| CIRA CENTRE, | | ART UNIT | PAPER NUMBER | |
| 2929 ARCH STREET PHILADELPHIA, PA 19104-2891 | | | 2881 DATE MAILED: 02/06/200 | 9 |

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 456 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 456 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

Notice of Allowability

| Application No. | Applicant(s) |
|-----------------|---------------|
| 10/529,967 | JANINI ET AL. |
| Examiner | Art Unit |
| ANDREW SMYTH | 2001 |

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

- This communication is responsive to 11/26/2008.
- The allowed claim(s) is/are 1,3-14,16-27,29-33,63 and 65-77.
- 3. Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) \square All b) ☐ Some* c) ☐ None of the:
 - 1. T Certified copies of the priority documents have been received.
 - 2. Certified copies of the priority documents have been received in Application No.
 - 3. Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).
 - * Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

- 4. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
- CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) Including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) hereto or 2) to Paper No./Mail Date
 - (b) including changes required by the attached Examiner's Amendment / Comment or in the Office action of

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).

6.

DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

- 1. Notice of References Cited (PTO-892)
- 2. Notice of Draftperson's Patent Drawing Review (PTO-948)
- Information Disclosure Statements (PTO/SB/08). Paper No./Mail Date 01/20/2006
- 4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
- 5. Notice of Informal Patent Application Interview Summary (PTO-413),
 - Paper No./Mail Date

9. ☐ Other

- 7.

 Examiner's Amendment/Comment
- 8. X Examiner's Statement of Reasons for Allowance

/David A Vanore/

Primary Examiner, Art Unit 2881

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Art Unit: 2881

DETAILED ACTION

Response to Amendment

- 1. Claims 1, 6, 7, 14, 19, 20, 27, 63, 68 and 69 amended.
- 2. Claims 2, 15, 28 and 64 canceled and claim 34 previously canceled.
- 3. Claims 35-62 previously withdrawn.

Allowable Subject Matter

- 1. Claims 1, 3-14, 16-27, 29-33, 63, and 65-77 are allowed.
- The configuration was not found in a prior art search. The following is a listing/ statement of reasons for the indication of allowable subject matter.

The search failed to show or suggest the prior use of:

The configuration/ combination of elements of independent claim 1. An electrospray source, comprising:

- a contiguous capillary for separating and electrospraying a fluid comprising analyte and electrolyte, said contiguous capillary comprising:
- a spray tip at one end of said capillary; and

an electrically conductive portion of the capillary in proximity to said spray tip, said electrically conductive portion capable of blocking passage of analyte therethrough.

wherein the electrically conductive portion comprises pores of a size that permit

passage of electrolyte therethrough.

The configuration/ combination of elements of independent claim 14. A contiguous capillary for electrospraying a fluid comprising analyte and electrolyte, the capillary comprising:

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an inlet end to supply fluid into the capillary;

a spray tip for spraying fluid out of the capillary; and

an electrically conductive portion of the capillary in proximity to said spray tip, said electrically conductive portion capable of blocking passage of analyte therethrough.

wherein the electrically conductive portion comprises pores of a size that permit passage of electrolyte therethrough.

The configuration/ combination of elements of independent claim 27. An apparatus for conveying analyte ions into an analytical instrument, the apparatus comprising:

a contiguous capillary, comprising:

an inlet end to supply a fluid into the capillary, said fluid comprising analyte and electrolyte;

a spray tip to spray fluid out of the end of the capillary that is opposite to the inlet end; and

an electrically conductive portion of the capillary in proximity to said spray tip, said electrically conductive portion capable of blocking passage of analyte therethrough,

wherein the electrically conductive portion of the capillary comprises pores of a size that permit passage of electrolyte therethrough;

an electrode exterior to said electrically conductive portion, said electrode being in electrically conductive contact with the fluid interior to said electrically conductive portion:

a spray counter-electrode in proximity to said spray tip, said spray counter-electrode

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comprising an opening in fluid communication with the analytical instrument; and a power supply connected to the electrode and the spray counter-electrode, said power supply providing a spray voltage for generating an electrospray comprising analyte ions, whereby at least a portion of the analyte ions are conveyed through said opening and into the analytical instrument.

The configuration/ combination of elements of independent claim 63. A contiguous capillary, comprising: an inlet end to supply a fluid into the capillary, said fluid comprising analyte; a spray tip for spraying fluid out of the capillary; and an electrically conductive portion of the capillary in proximity to said spray tip, said electrically conductive portion capable of blocking passage of analyte therethrough, wherein the electrically conductive portion comprises pores of a size that permit passage of electrolyte therethrough.

- Dependent claims 3-13 are allowable due to dependency upon allowable independent claim 1.
- Dependent claims 16-26 are allowable due to dependency upon allowable independent claim 14.
- Dependent claims 29-33 are allowable due to dependency upon allowable independent claim 27.
- Dependent claims 63 are allowable due to dependency upon allowable independent claim 65-77.

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Conclusion

 The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Pertinent prior art is closely related art that individually or in combination could be considered grounds for rejection. See references cited for a listing of the pertinent prior art found and the prior art found.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Andrew Smyth whose telephone number is 571-270-1746. The examiner can normally be reached on 7:30AM - 5:00PM; Monday thru Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Robert Kim can be reached on 571-272-2293. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

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/A. S./ Examiner, Art Unit 2881 /David A Vanore/ Primary Examiner, Art Unit 2881